

General Entomology. By Robert A. Wardle, professor of Zoölogy, University of Manitoba, Winnipeg, Canada. 8vo., washable cloth, 311 pp., 96 illus. Philadelphia, P. Blakiston's Son and Company, 1936. \$2.25.

This is not "just another book," since it proves to be a work that is well worthy of the attention of the working entomologist because the author has emphasized a broad appreciation of the basic principles of the subject. Beginning with such matters as external and internal anatomy, development and life cycle, the discussion continues into physiology and behavior, and later into Proturoid and Palaeopteroid, Orthopteroid and Plecopteroid, Zygoteroid and Ephemeropteroid insects. These are followed by similar treatment of Hemipteroid, Panorpid, Coleopteroid, and Hymenopteroid insects. Though not elementary in character, the book is intended for the use of the general student of entomology rather than the specialist who would require detailed knowledge of such ramifications as insect morphology, insect classification and the like. A considerable number of illustrations in proportion to the size of the book have been included; some have been borrowed from other works, with suitable adaptations, and many have been specially prepared for this work. Use also has been freely made of subject material and illustration from pioneer workers, as well as such from recent monographic studies. Living specialists in various fields of activity have been designated by name and in numerous instances résumés of important work by them have been included. This feature alone is certain to add much to the general usefulness of the book, particularly to entomological workers isolated in locations remote from centers of contact with professional colleagues. J. S. W.